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MEETINGS.

FINANCE AND ECONOMICS the rapid transit industry. It should be run for its patrons, its owners when only

GARET GARRETT, Editor.

WALL STREET OFFICE: Mills Building, 15 Broad St.

Significant Relations. Money and Prices: \$2,439,921,932 \$1,993,549,015 division. In the case of the rail-Loans of all national banks..... 11.9% which would not fairly compensate Ratio of their cash to deposits..... \$111,048,000 Loans of Federal Reserve Banks 14,965,000 10,122,000

84.8% circulation A year 105.92 highest rate was 2% per cent. 118.60 91.53 Average price of fifteen railroad stocks..... Average price of twelve industrial stocks The week

Food cost of living (Annalist index number) . Production:

Unfilled U. S. steel orders, tons..... 9,640,458 9,937,798 4,678,196 Last year's 759,000,000

Wheat crop, bushels..... 3,955,000,000 12,916,000 Distribution: 55,244 52,116 Surplus freight cars.....

Increase or decrease from last year.
rd week Second week Jan. 1
July of July May 3

198 roads 198 roads May 31. 18.8% 23.4% -16.4°c Gross railroad earnings..... Increase or decrease from las

Thursday, August 5, 1916.

Bank clearings.....

Wednesday, August 2, 1916. This was a day for the stock market to be dull and weak. The day before it was dull and strong. The movements are irrelevant and unimportant. When prices rise it is surprising that they rise so easily on so little buying, and it is said, "There are no stocks." When they fall it is commitment is another. Testimony easily, and it is said, "The market is effect that buyers were not overfull of stocks." The details are mag- stocked. Merchandise stocks were cific lost half of the preceding day's rise, somebody sold more Industrial

vas generally weak. THE AMERICAN TOBACCO COMPANY more from the stocks in the form all that it can get. Its faith is not of dividends than he pays for the in argument but in coercion, and it of dividends than he pays for the in argument but in coercion, and it the American export viewpoint, the New York, August 2, 1916 of dividends that he pay to the feet of 5 per cent has been declared money. The seller, on the other is a faith well founded, for wages benefit from increased activity in buy-mon store of the Angels to clock. The seller, on the other is a faith well founded, for wages benefit from increased activity in buy-mon store of the store. fortune with a product that would have been raised more by that ing has outweighed the slackness in hand, is out of pocket in corresponding the close of a few thousand dollars a debt, is produced annually from the pense of a few thousand dollars a debt, is produced annually from the pense of a few thousand dollars a debt, is produced annually from the pense of a few thousand dollars a debt, is produced annually from the pense of a few thousand dollars a debt, is produced annually from the pense of a few thousand dollars a debt, is produced annually from the pense of a few thousand dollars a debt, is produced annually from the pense of a few thousand dollars a debt, is produced annually from the pense of a few thousand dollars a debt, is produced annually from the pense of a few thousand dollars a debt, is produced annually from the pense of a few thousand dollars a debt, is produced annually from the pense of a few thousand dollars a debt, is produced annually from the pense of a few thousand dollars a debt, is produced annually from the pense of a few thousand dollars a debt, is produced annually from the pense of a few thousand dollars a debt, is produced annually from the pense of a few thousand dollars a debt, is produced annually from the pense of a few thousand dollars a debt, is produced annually from the pense of a few thousand dollars a debt, is produced annually from the pense of a few thousand dollars a debt, is produced annually from the pense of a few thousand dollars a debt, is produced annually from the pense of a few thousand dollars a debt, is produced annually from the pense of a few thousand dollars a debt, is produced annually from the pense of a few thousand dollars a debt, is produced annually from the pense of a few thousand dollars a debt, is produced annually from the pense of a few thousand debt, is produced annually from the pense of a few thousand debt, is produced annually from the pense of a few thousand debt, is produced annually from the pense of a few thousand debt, is produced the dividends to their owners, and concerted action. the dividends paid by the borrower The trouble with the rapid tran- difficulties in moving and paying for the right combination to make line-

Treasury. It means that all dealings annual production of the last five- all its men. In one New England France,

+40.4% +42.8% credits for fall delivery, and above all, the asking, most generally, fo financial statements. Analysis o financial statements should be made with a thought in mind of determining upon what basis mer-chandise has been valued, for the prevalence of high prices may have created an inflation, which means that merchandise must be known to have been valued not at the

168.61

169.9

thought ominous that they fall so hitherto has been generally to the nified, and the outlines are lost, low when business began suddenly to Sub-Treasury, New York banks

cost, but at the market.

That is owing of the three can afford really to take bor learned the pow

The case in time money is particu-A year larly conspicuous in the shorter 145.36 periods. Institutions are more and more inclined to keep liquid by offering nore of their available funds for the shorter dates. Sixty day was especially on offer, and in consequence the rate was marked down to 3 per cent Rates for other maturities remained enchanged, being 315 per cent for ninety days, 3% per cent for four months, 4 per cent for five and six 275.111 months. Commercial paper was active at 3% to 4 per cent.

terms of fair division will endure.

It is always possible that the public,

has itself been taking too much. It

may have bought garments for less

than they were worth, so that the

workers received less than a fair

roads, it may have been enjoying and

Money.

both capital and labor.

Official discount rates in each of the twelve Federal Reserve districts are:

Maturity in days-10 or less. New York. Philadelphia. Atlanta.

Bank Exchanges. The day's clearngs at New York and other cities, com-Overstocking is one thing. Over- pared with those of the corresponding

314

Kansas City.. Dallas

San Francisco ... 3

Motor stocks were weak, Bethlehem expand, and since then it has been gained from the Sub-Treasury \$1.919,-Steel declined 414 points, Union Pa- difficult to get ahead of the demand. 000, and gained since Friday \$3.064,000. Bars in New York, 64 cents. Mexican Mr. Shonts asks: "Shall New dollars, 49% to 53. The American Ex-

run for all three. No party recorded within the past thirty years. speculator it is cheaper to buy than does it will ultimately suffer. That the market price of silver now more in one of commercial size very much gressive exhaustion of existing fuel Money with which to carry seems very clear and simple, but in than 30 per cent above last year's larger. If it succeeds there it is supplies. The corporations that are corn crop was 3,000,000,000 bushels. If A great many practice it is difficult because there average has increased China's buying then ready for the manufacturer, reinvesting in chemical research any one had started at the beginning securities, even after the rise that are no rules of division, no tests by power by just that much and has The problem is solved. The least intelligent body large buying orders, in welcome con-

which is so often called in to judge, Science Washing Linen in a Research Laboratory.

Call money on the New York Stock Pittsburgh, July 28. Exchange ruled at 21/2 per cent. The

used to pay the wages of the trained says Dr. Bacon, "on account of the and specialized chemist appointed by water power available, may soon inthe faculty to conduct the research. troduce this air fertilizer industry." The institute picks the very best It ought now to be flourishing. man it can find for your particular job, provides him with a laboratory of accumulated knowledge.

day but bake wheat loaves, changing in emergencies or to form the plans of the day before, and the market York Street Railways be run for the press Company in its foreign trade the formula each time a little, inbulletin presents a glowing picture of tending to exhaust all the possible ceived in a spirit of providence. If the opportunities for the sale of Americ combinations. He has not found the such a body of knowledge had experfect formula, but he will.

in a small revolving furnace. His job that will make its production com- is, for instance, only one coal com-China's currency is one of the few mercially feasible. When he thinks pany in the Pennsylvania region orld currencies remaining on the he has it he will test the process in that has intelligently considered drained and transformed into wealth lver basis. The notable increase in a furnace twice as large, and then ways and means to meet the pro-

"Our Hong Kong office reports that scraps. This is not untidiness. In- cal, the Eastman Kodak, the United this rise in silver exchange has ac- side is a chemist whose mind is in- States Steel and the du Pont Powder one and one-half times around the clined to the problem of a linoleum companies, the list narrows off sud- world. Yet this fabulous wealth, a difference in the earnings of the rail maker who thinks he could make a denly to corporations maintaining whose money value at 50 cents a bushel fortune with a product that would small research laboratories at an ex- would more than wipe out our national or that lies in due more particularly to the disturbed be could, and will, if the chemist year, and of these there are perhaps were practically valueless to us until political conditions and the consequent hits upon the right things in just fewer than 200

presently, it means that all dealings in sterling exchange in this market have come under the surveillance of the British government.

The purpose of the new order, actording to bankers here; is to prevent any of the blacklisted firms from doing business through the rice can be now under the surveillance of the likely to be very keen, can bank not under the bankflasted firms to transact their London business through the elong period of months when the long period of months when the long period of months when the wheat the wheat the long period of months when the supply of labor and late of the wheat was not particularly difficult for black and the long period of months when the supply of labor and the long that the long period of months when the supply of labor and late of the wheat when the long period of months when the supply of labor and late of the wheat the long period of months when the supply of labor and late of the wheat the long period of months when the supply of labor and late of the wheat the l

Elsewhere existing chemical knowledge is being applied to practical problems. Here in the department of pure chemistry, which is supported entirely by the institute, the work is to torture the elements until they give up new secrets. There is no definite problem. This is research for its own sake. The results

the department of pure chemistry."

go into the stock of reserve knowl-

edge, which the practical researchers

draw upon at their leisure.

\$7,606,000,000 \$6,659,971,000 wasting transportation at a price Pioneer Work in Economic Chemistry at Mellon Institute.

"Scientific research," says Dr. Raymond F. Bacon, "conducted in Even technology may have its metaphysical. The meaning is pracequally because of that opportunity for vogue. "Not the least of Pittsburgh's tical. This country is far behind wonderful achievements," says the some others, especially Germany, in widely flung ten-sheet poster, "is economic chemistry. Only since the Tech Beer. It typifies technical ad- war have people begun to perceive tent. That is why the elemental and its importance. It is something new This is not so incongruous as you to say in popular discourse that the think. Beer is an article of com- industrial progress of a people can why prosperity is the shibboleth of our merce, and, therefore, a proper sub- be measured by their consumption of social, economic and especially our po ject of technological interest. Brewer, sulphuric acid, which is the basic litical life. In our hearts we all know laker, dyer, or whatever you say, if chemical; but this has been an axiom full well that neither nations nor in you have a chemical problem on your for many years in the laboratory. hands, you take it to the Mellon In- Understanding is yet imperfect of stitute of Industrial Research, adja- the fact that a country is not selfcent to the University of Pittsburgh, contained, agriculturally, economiand leave it. You need only to buy cally, or, in the large sense, politir fellowship and then exercise a cally, unless it has enormous facililittle patience. In time your prob- ties for the fixation of nitrogen and housetop of expectancy, asks whether lem will be solved and the formula can obtain unlimited quantities of the dust clouds upon the horizon telldelivered. It is yours. Buying a nitric acid and its salts from the ing of the coming of peace in Europe fellowship means that you contribute atmosphere. "The great adaptability forecast the ending of that prosperity a certain sum of money-several of certain parts of our country of which we are now tasting the fulthousand dollars-which will be to electro-chemical manufacturing," ness and for which we have been hun-

The attitude of American industry and gives him access to a large store toward chemical research has been one of immediate expediency. Prob- Machine said, "not sometimes, but all time with any certainty of being cor-There are now more than forty- lems have been solved only as they the time" One of these is the posses- rect. But the crop has been hard hit five fellowships, each with its own have arisen, upon the incentive of sion of certain resources, and such our and probably has been cut, possibly by laboratory and its own problem to necessity; few have been anticipated, country has in full measure, pressed 35 to 40 per cent. solve. One is the fellowship of a The future is expected to take care down and running over. You may get The winter wheat farmer, who lives baking concern that wants a formula of itself. Therefore, there does not a glimmering of them by reading gov- in the corn country, who plants his for perfect bread. In that laboratory exist any great accumulation of re- ernment documents, railroad folders, winter wheat in the fall and gets i for perfect bread. In that laboratory exist any great accumulation of rea chemist does nothing day after serve knowledge to be drawn upon law but hale wheat leaves changing in emergencies or to form the plans advertisements. isted many of the problems suddenly In the next laboratory another created by the war would have been and will reveal an untold wealth of chemist is treating phosphorous rock much easier and more quickly solved. agricultural productions, of lumber,

one stumbles over a heap of linoleum General Electric, the General Chemi-

The Inspiration.

METINGS.

Grantmax Maximum of the disclidents of the few contents and the disclidents of the few contents and the disclidents of the disclidents of the disclidents of the disclidents of the few contents and the disclidents of the disclidents

don. Bankers talked of the new order yesterday in a matter of course way, resterday in a matter of course way.

They seemed to think it a natural development.

France, it seems, is copying out of the British book. French bankers, too, are working to hinder the operations of where. New York bankers in several instances have, during the new seem, subjects, here are at present signs that we are resting the new stephen. Never had people at linestances have, during the new stephen saw of the new stephen s

about that you could hope to under-stand. "This," says the director, "is DESTINY LIES IN **OUR OWN HANDS**

A Little Lecture to the Sister Anne of Commercial Life.

By ARCHER WALL DOUGLAS.

St. Louis, July 31.

No one can deny that as a nation we are enamoured of prosperity. Not alone because of the mere getting of the laboratory is the soul of indus- dollars and the things of ease and trial prosperity." The words are comfort which these dollars imply, but the expression of our powers which prosperity alone can give. Democracy is essentially a system of action, of tireless strivings and of noble disconundeveloped West is so rife with the spirit of militant democracy. That is dividuals ever learn lessons of enduring value save through stress and trouble. Yet, nevertheless, we all go like snails most unwillingly to the school of adversity. So it is that the Sister Anne of A Description of the Blight

job of self-decapitation described by it is all over except the counting of the Koko in "The Mikado." as being "an bushels, there is absolute certainty exceedingly delicate and difficult, not about general results. The Northwest to say dangerous, operation." Yet will get a wheat crop, but it will be there are some logical factors in the small. It started out with good prom commercial history of a nation that ise. No one can put the damage into make two and two, as the Thinking bushels or percentage figures at this

For Eyes to See. A daylight trip through most any

forbidding and inhospitable desert, will Problems which now may be mines and water power, such as no is to obtain "artificial manure," that clearly foreseen are disregarded be- string of statistics can convey. Let it, chemical fertilizer, by a formula cause they are too far away. There two examples suffice: There are to-day in this country over 70,000,000 acres 1904 there was a bad rust damage sea more than an infinitesimal portion of of the Christian era to count this crop At the door of the next laboratory fingers. After you have named the would still need ten thousand years of stood end to end they would reach

Then the Spirit.

listed firms to transact their London business through the medium of New York banks. This has also been done in a small way since the publication of the blacklist, but the new order is expected to shut these firms completely of the medium of New York banks through the medium of New York banks. This has also been done in a small way since the publication of the blacklist, but the new order is expected to shut these firms completely of the way, when the Dardandles were of the publication of the blacklist, but the new order is expected to shut these firms completely of the way, when the Dardandles were transconting to transact their London date of followed the harvest north, burning able. Australia alone appears to habit has been to think that new and have been exceptionally favored. She improved processes would somehow working of the little leaven that is evolve themselves and be for sale which is a man experiment. When the province and of prejudice, as the followed the harvest north, burning able. Australia alone appears to have been exceptionally favored. She improved processes would somehow working of the little leaven that is evolve themselves and be for sale improved processes would somehow working of the little leaven that is evolve themselves and be for sale improved processes would somehow when, if and as needed, like any one's labor, though it was more than one's labor, the followed the harvest north, burning able. Australia alone appears to the think that new and sterling for \$4.75 11-16; the intrinsic part of the common of the working of the little leaven that is evolve themselves and be for sale improved processes would somehow working of the little leaven that is evolve themselves and one in his own laboratory.

SHIPPING RECORDS BROKEN the part of the common of the work is the set in the followed the harvest north, burning as the part of the common of the work is the set in the condition. Th off from business relations with Lonoff from business relations with

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leo. C. Van Tuyl Jr., President 9 Wall St. 716 Fifth Ave.

WHAT RUST HAS DONE TO WHEAT

and the Consequences of This Visit.

Minneapolis, Aug. 1.

standing in position to get a hard knock when "corn weather," which means hot weather, comes along in July. This is a risk he always takes. is year extreme heat caught some the spring wheat in the delicate

Not until this year has it repeated

The Worst Is Known.

op prospect has been lowered to omise below the ten-year average

ing out here. It cannot have that effect

Rust when You See It.

Ports in Year.